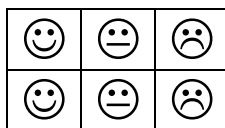


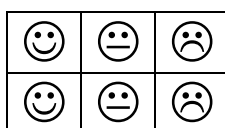
TRIGONOMETRY IN NON-RIGHT ANGLED TRIANGLES

A:



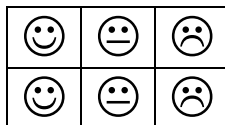
B: I can use the Sine rule to find the length of a side in a triangle

Sine rule



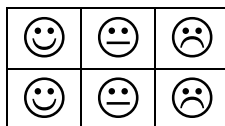
C: I can use the Sine rule to find an angle in a triangle

Sine rule



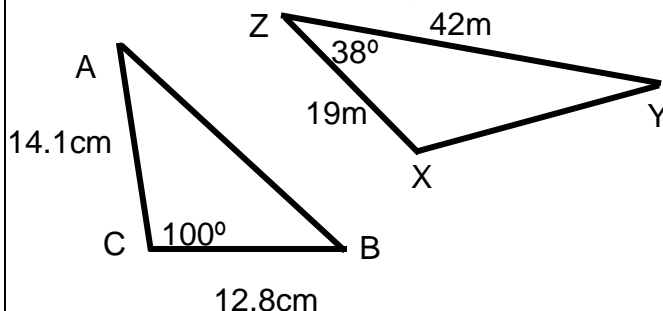
D: I can use the Cosine rule to find the length of a side in a triangle

Cosine rule

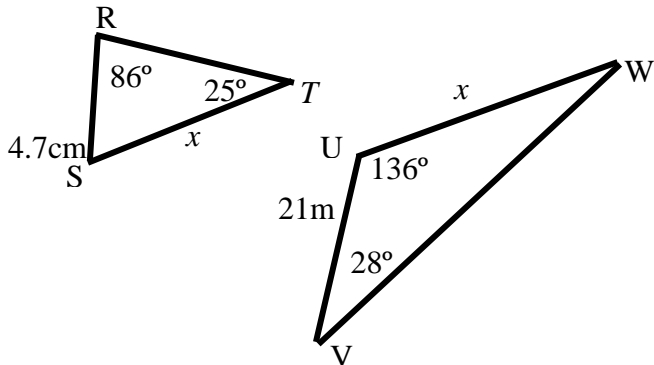


E: I can use the Cosine rule to find an angle in a triangle

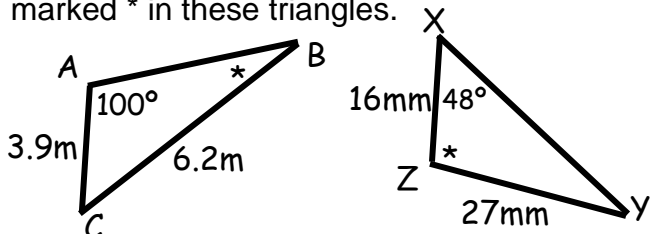
Find the area of these triangles:-



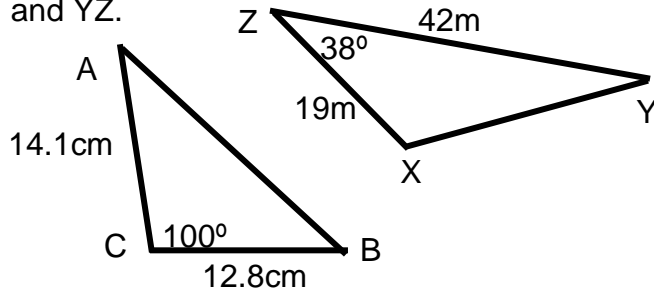
Use the Sine rule to calculate lengths marked x .



Use the Sine rule to calculate the angles marked $*$ in these triangles.



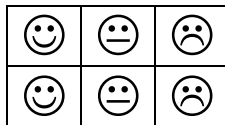
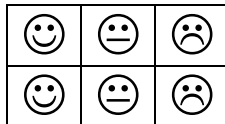
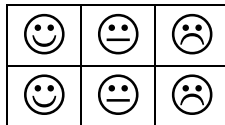
Use the Cosine rule to find the lengths of AB and YZ.



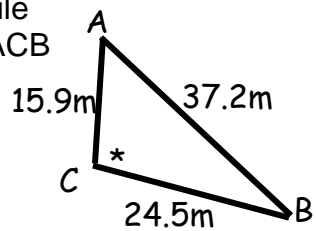
Cosine rule

F: I can choose the correct rule to find an angle or length of a side of a triangle

G: I can find distances and directions using trigonometry

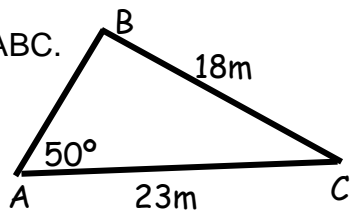


Use the Cosine rule to find the angle ACB

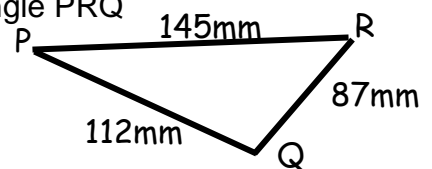


In a triangle XYZ, $XY = 4.3\text{cm}$, $YZ = 7.1\text{cm}$ and $XZ = 5.9\text{cm}$. Calculate the largest angle in the triangle.

Calculate angle ABC.

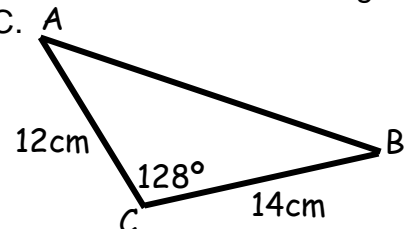


Calculate angle PRQ



In a triangle UVW, angle VWU is 48° , angle UVW is 101° and side UW is 12m. Calculate the length of side VW.

Calculate all the unknown sides and angles in triangle ABC.



Two ships set sail from port. Royal Princess sails for 32km on a bearing of 057° . Royal Sun sails 45km on a bearing of 138° . Calculate the distance between the two ships.

A TV signal is sent from a transmitter(T) via a satellite (S) to a city (C). Calculate the height of the satellite above the ground.

